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Of all the hormone-secreting glands the thyroid is the only one to produce the above results. Boiling does not destroy the activity of the material. Iodine and iodothyron do not produce it.

When the treatment is discontinued the strain of *Paramecium* reverts to the division rate of the controls. The other mutations brought about by the feeding do not seem to persist.

ARE CONJUGATION AND ENCYSTMENT NECESSARY?

Mast (*J. Exp. Zool.*, July, 1917) concludes that neither conjugation nor encystment is necessary for the continued existence of *Didinium*. By starting new groups of lines from old ones both near and remote from encystment and propagating these in parallel series, it seems that these data have no constant or appreciable effect on fission rate, or on variations in this rate. In these experiments a group was carried an average of 1646 generations without encystment. In one group of lines, 721 generations after conjugation and 196 generations after encystment, a mutation suddenly appeared in which the rate of division for 315 days was more rapid than the slower lines in the ratio of 836 generations to 634.

EXTRA CONTRACTILE VACUOLES IN *PARAMECIUM*

Hance (*J. Exp. Zool.*, July, 1917) gives the account of the origin of a race of *Paramecium* with supernumerary vacuoles, apparently arising thru subjection to temperatures higher than usual. The race was unusually strong, large, and resistant to extreme conditions. The extra vacuoles, ranging as high as five, usually occurred in the posterior end of the cell. They may increase during the vegetative life of the individual; and the number is modified by the rate of division, the age of the culture medium, and the presence of katabolic products in the environment. The author holds that the "potentiality for this organ has not been lost, tho the extra vacuoles may not actually appear for several generations."

PRESERVING FISH WITHOUT ICE

Sherman's Fish Sterilizing Co. owns a process for preserving fish without ice (*Pacific Fisherman*, July, 1917) which is claimed